

Company Profile

Celerity is a world leader in the design and production of high performance gas and chemical delivery process modules that are integral to the manufacturing of semiconductors and other related products requiring high precision and control. Our customer base includes both original equipment manufacturers (OEMs) and fab owners.

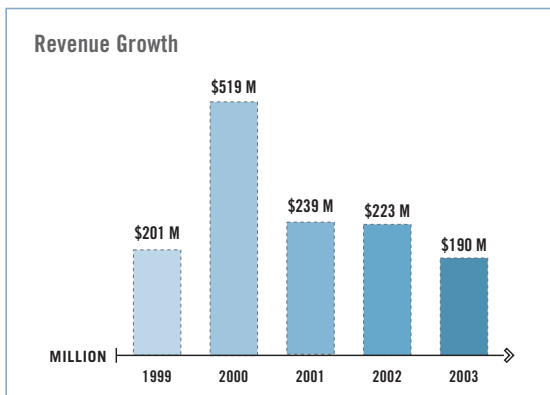
With vertically integrated solutions and global resources, Celerity is uniquely positioned to provide the most compelling set of products and services with respect to quality, flexibility, cycle time, cost of ownership, and accelerated speed to market.

Celerity employs over 80 engineers and scientists engaged in all aspects of technology and product development. Our technology solutions result from a strong core competency in fluid dynamics, thermal heat transfer, physical chemistry, advanced electronics, and software engineering. This expertise is accentuated in technologies that require high-precision mechanical engineering and thermal and magnetic modeling, such as MultiFlo™, Step™ and PTI found in our gas delivery modules and liquid flow control, concentration management, and particle characterization technologies used in chemical delivery modules.

Celerity maintains ISO 9001 certified clean room manufacturing facilities globally and a team of over 50 applications and service engineers to provide 24/7 customer support. Through a firm commitment to continuous improvement, Celerity has received a number of quality awards and is recognized by key customers for outstanding quality performance and business processes.

Principal Customers Served

- > Semiconductor equipment OEMs
- > Semiconductor wafer manufacturers
- > Semiconductor device manufacturers
- > Flat panel display equipment OEMs
- > Magnetic and optical storage media manufacturers
- > Microsystems (MEMS) equipment OEMs
- > Fiber optic cable manufacturers



Celerity Fast Facts

Founded: 1999
 Employees: 1100
 Corporate Headquarters: Milpitas, CA
 Revenues: LTM Q1-2004 \$223

Global Resources

Customer support: 15 offices worldwide providing direct sales, service and applications support

- Global technical support
- Gas and chemical delivery module manufacturing
- Mass flow controller and thermal instrument manufacturing
- Precision thermal control equipment manufacturing

Manufacturing & Service Locations

United States

Austin, TX
 Milpitas, CA
 Redwood City, CA
 Richmond, VA
 Stone Ridge, NY
 Tempe, AZ
 Tualatin, OR
 Yorba Linda, CA

International

Dublin, Ireland
 Hsinchu, Taiwan
 Sungnam City, South Korea
 Munich, Germany
 Shanghai, China
 Tianjin, China
 Tokyo, Japan
 Singapore

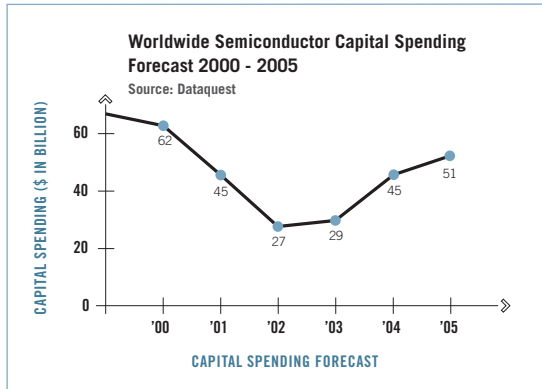
Management Team

David Shimmon, CEO
 John Murphy, President and COO
 John Ferron, CFO
 Joseph Foster, SVP Technology & Marketing
 Tony La Rosa, SVP Administration
 David Somo, SVP Sales & Marketing

Market Opportunity

The worldwide market opportunity for semiconductor devices will grow from \$177 billion in 2003 to nearly \$250 billion in 2005 according to Gartner Dataquest. To support this growth, Dataquest forecasts capital equipment expenditures in the semiconductor industry to grow from \$29 billion in 2003 to nearly \$51 billion in 2005.

Celerity designs and manufactures gas and chemical delivery modules that are integral to semiconductor capital equipment. This key OEM sector served by Celerity was approximately \$800 million in 2003, and is projected to grow to \$2.1 billion in 2005. The Company also designs and manufactures semiconductor fab chemical and slurry blending and dispensing systems that deliver highly specialized chemistries to cleaning and polishing capital equipment used in wafer fabrication. This key end-user sector served by Celerity totaled over \$130 million in 2003, and is projected to grow to over \$425 million in 2005.



Celerity Solution

Integrated Delivery Module and Flow Control Solutions

In the semiconductor industry, as well as other industries, semiconductor original equipment manufacturers (OEMs) are increasingly outsourcing the design and manufacturing of key elements of their products to preferred suppliers. This shift to outsourcing is primarily taking place due to OEMs sharpened focus on their core competencies and allocation of their resources to their primary manufacturing processes.

Celerity is a preferred module and flow control technology supplier to many leading OEMs. Our end-to-end offering includes a comprehensive set of services supporting each step of a product life cycle. By partnering with our customers as a seamless extension of their RD&E, manufacturing, and service organizations, we reduce cost, improve product life cycle management, and accelerate speed to market.

It's the Technology that Makes the Difference

Celerity's innovative technologies result from strong multidisciplinary core competency in fluid dynamics, thermal heat transfer, physical chemistry, and advanced electronics and software engineering. At Celerity, we work closely with our customers throughout the entire development process to ensure that our products meet the toughest process requirements in the industry.



MultiFlo Technology

MultiFlo is a revolutionary technology used in all our digital mass flow controllers (MFCs). MultiFlo enables users to reconfigure an MFC to a gas and range of choice, anywhere, anytime using a bundled software package. MFCs with MultiFlo come in nine standard configurations, covering 85% of the gases and ranges used in a typical production fab. The unique customer benefits that MultiFlo provides include increased tool uptime, dramatic reduction in inventory requirements, increased flexibility, and lowered cost of ownership.



Step Technology

Step is a technology used in Celerity's mass flow controllers which enables fast response in critical process applications. Step utilizes a high speed DSP (digital signal processor) and employs an optimized sensor drive circuit to deliver industry leading flow stabilization time. This results in improved wafer throughput time for low flow semiconductor/flat panel display applications and enables fast-switching processes, such as the Bosch process employed in MEMS manufacturing.



PTI Technology

Flow changes in gas delivery systems commonly cause pressure surges resulting in flow instability of up to 100%. Pressure surges, which are difficult to diagnose, often create process inconsistencies, tool downtime, and unnecessary replacement of perfectly good components. Celerity's next generation gas modules with embedded PTI (Pressure Transient Insensitive) technology maintains flawless flow control and output stability, even during pressure surges.

Design and Engineering

We offer complete system design services – from specifications to engineering and final design. Throughout the process, we align ourselves with our customers' engineering procedures, establishing virtual design collaboration with their CAD files and bills of materials. Leveraging the latest IT technologies, our engineers and customers work together concurrently at every stage of the design process.

Our team of research scientists, product development personnel, manufacturing specialists, and hardware and software engineers are all focused on making advancements in flow control and fluid delivery technology. We have close relationships with OEMs and end users, which provide us with a broad understanding of their needs and technology requirements. Our customers recognize us as experts capable of assisting them in the design of their gas and chemical delivery requirements and the selection of module components for their new wafer processing equipment.

Global Manufacturing

In order to meet our customers' strict requirements for quality and time to delivery, we have established global manufacturing operations that enable us to provide process modules on a just-in-time basis, in most cases without regard to order size or change in specifications. All of our manufacturing processes are based on a quality business system that starts in the sales cycle and continues through customer service and support. We operate clean room manufacturing facilities in the United States in Texas, California, and Oregon; and internationally in Ireland, South Korea, and Japan. At all sites worldwide, we leverage a shared knowledge in safety, functional standards, and environmental regulations and provisions. We design for compliance and obtain certification to meet international industry standards, including Semi S2, Semi F-15, CE, UL, UFC, NFPA, and NEC.

Life Cycle Support Solutions

Today's advanced process technologies and manufacturing operations require proven performance of gas and chemical delivery systems. Celerity provides technical support from the process design phase throughout the life of the equipment. We begin by assisting OEM's and device manufacturers in selecting the best solution up-front and provide comprehensive support throughout the life of the equipment. This includes final integration and test at the OEMs facility, installation, startup through production at the end user's site, and process development all the way through process upgrades and retrofits.



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